

100 mm	

OPSK w/R=4/5 16- COOING (1.6 BITS/SYM) (1.6 BITS/SYM) (1.7 BITS/SYM) (1.8 BITS/SYM) (1.8 BITS/SYM) (1.9 B		MODULAT	MODULATION AND CHANNEL CODING	9
3.5 MHz 2.56 Mcps 2.56 Mcps 4.096 Mbps TH (SF=1) 4.096 Mbps TH (SF=16) 2.56 Kbps TH (SF=128) 3.2 Kbps	Parameter	QPSK w/R=4/5 CODING (1.6 BITS/SYM)	16-QAM w/R=4/5 CODING (3.2 BITS/SYM)	64-QAM w/R=4/5 CODING (4.8 BITS/SYM)
2.56 Mcps 4.096 Mbps 4.096 Mbps 4.096 Mbps 256 Kbps 32 Kbps	RF CHANNEL BANDWIDTH	3.5 MHz	3.5 MHz	3.5 MHz
4.096 Mbps 4.096 Mbps 4.096 Mbps 256 Kbps 32 Kbps	CHIP RATE	2.56 Mcps	2.56 Mcps	2.56 Mcps
WIDTH (SF=1) 4.096 Mbps WIDTH (SF=16) 256 Kbps WIDTH (SF=128) 32 kbps	COMMUNICATION CHANNEL BANDWIDTH	4.096 Mbps	8.192 Mbps	12.288 Mbps
ЭМІОТН (SF=1) 4.096 Mbps ЭМІОТН (SF=16) 256 kbps ЭМІОТН (SF=128) 32 kbps	Peak data rate	4.096 Mbps	8.192 Mbps	12.288 Mbps
ЭМІОТН (SF=16) 256 kbps ЭМІОТН (SF=128) 32 kbps	CDMA CHANNEL BANDWIDTH (SF=1)	4.096 Mbps	8.192 Mbps	12.288 Mbps
ЭМЮТН (SF=128) 32 kbps	CDMA CHANNEL BANDWIDTH (SF=16)	256 kbps	512 kbps	768 kbps
iy i = :	CDMA CHANNEL BANDWIDTH (SF=128)	32 kbps	64 kbps	96 kbps
1.17 bps/Hz	Modulation factor	1.17 bps/Hz	2.34 bps/Hz	3.511 bps/Hz

FIG.4

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64 QAM	MODULATION FACTOR	3.511	7.022	14.044	28.088	56.176
	AGGREGATE CAPACITY (Mbps)	12.288	24.576	49.152	98.304	196.608
16 QAM	MODULATION FACTOR	2.34	4.68	9.36	18.72	37.44
	AGGREGATE CAPACITY (Mbps)	8.192	16.384	32.768	65.536	131.072
QPSK	MODULATION FACTOR	1.17	2.34	4.68	9.36	18.72
	AGGREGATE CAPACITY (Mbps)	4.096	8.192	16.384	32.768	65.536
	NUMBER OF ELEMENTS	1	2	4	8	16

FIG.5

